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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/051,723	01/17/2002	Isao Noda	8487M	8629
27752 7	590 02/27/2003			
THE PROCTER & GAMBLE COMPANY INTELLECTUAL PROPERTY DIVISION WINTON HILL TECHNICAL CENTER - BOX 161			EXAMINER	
			SHORT, PATRICIA A	
6110 CENTER HILL AVENUE CINCINNATI, OH 45224			ART UNIT	PAPER NUMBER
ĺ			1712	
			DATE MAILED: 02/27/2003	4

Please find below and/or attached an Office communication concerning this application or proceeding.

A	Application No. Applicant(s)				
Office Action Summary	10/051/23 Noda et al				
	Examiner Group Art Unit 1712				
—The MAILING DATE of this communication appears	on the cover sheet beneath the correspondence address				
P ri d for Reply	iA				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO OF THIS COMMUNICATION.	EXPIRE three MONTH(S) FROM THE MAILING DATE				
<ul> <li>Extensions of time may be available under the provisions of 37 CFR 1.15 from the mailing date of this communication.</li> <li>If the period for reply specified above is less than thirty (30) days, a reply</li> <li>If NO period for reply is specified above, such period shall, by default, experience to reply within the set or extended period for reply will, by statute</li> </ul>	pire SIX (6) MONTHS from the mailing date of this communication .				
Status					
☐ R sponsive to communication(s) filed on	•				
☐ This action is FINAL.					
☐ Since this application is in condition for allowance except for accordance with the practice under Ex parte Quayle, 1935					
Disposition of Claims					
Claim(s) 1-20	is/are pending in the application.				
Of the above claim(s)	is/are withdrawn from consideration.				
☐ Claim(s)	•				
✓ Claim(s) 1-20	is/are rejected.				
☐ Claim(s)—————	is/are objected to.				
□ Claim(s)					
Application Papers					
☐ See the attached Notice of Draftsperson's Patent Drawing I					
☐ The proposed drawing correction, filed on is ☐ approved ☐ disapproved.					
☐ The drawing(s) filed on is/are objected to by the Examiner.					
<ul> <li>□ The specification is objected to by the Examiner.</li> <li>□ The oath or declaration is objected to by the Examiner.</li> </ul>					
Pri rity under 35 U.S.C. § 119 (a)-(d)					
	N 25 11 C C C 44 0/2\ /4\				
<ul> <li>□ Acknowledgment is made of a claim for foreign priority under large large.</li> <li>□ All □ Some* □ None of the CERTIFIED copies of the large.</li> <li>□ received.</li> </ul>	- ,,,,				
☐ received in Application No. (Series Code/Serial Number)					
$\hfill\Box$ received in this national stage application from the International	ational Bureau (PCT Rule 1 7.2(a)).				
*Certified copies not received:	•				
Attachm nt(s)					
Information Disclosure Statement(s), PTO-1449, Paper No(	s). 2 / 3 □ Int rview Summary, PTO-413				
Notice of Reference(s) Cited, PTO-892	□ Notice of Informal Patent Application, PTO-152				
☐ Notice of Draftsperson's Patent Drawing Review, PTO-948	□ Other				
Office A	acti n Summary				

U. S. Patent and Trademark Office PTO-326 (Rev. 9-97)

Part of Paper No.

Art Unit: 1712

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wnuk alone or in view of Noda '590, '116 and '470. Wnuk teaches compositions comprising polyhydroxyalkanoate (PHA) and polylactide (PLA) that can be used to form biodegradable fiber that are useful in forming nonwoven articles. See col. 26, lines 3-52 and col. 33, lines 31-39. PHA includes PHA copolymers taught in the Noda patents and encompassed by the PHA copolymers recited in the instant claims. See col. 14, line 22-43. Each of Noda '590, '116 and '470 teaches copolymers of polyhydroxybutyrate that are easily melt processed and can be used make fiber. See Noda '590 at col. 11, line 65 through col. Col. 15, line 7, Noda '116 at col. 16, line 16 through col. 17, line 16 and Noda '470 at col. 17, line 27 through col. 18, line 16. As suggested by Wnuk, it would have been obvious to use a composition comprising PHA copolymer and PLA to form biodegradable fiber and nonwoven articles encompassed by the claims. Alternatively, in view of Noda '590, Noda '116 and Noda '470, it would have been obvious to use a PHA copolymer encompassed by the PHA copolymer recited in the claims as the PHA copolymer in the compositions of Wnuk to obtain compositions that are easily melt processable and use to form biodegradable fiber and nonwoven articles.

Claims 1-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over.

Matsui. The reference teaches degradable fiber comprising a high melting aliphatic polyester that can be polylactic acid and a low melting polyester that can be a copolymer of butyric and/or valeric acid and a lactone such as caprolactone or butyrolactone. See col. 37, line 56 through col. 38, line 49 and col. 40, lines 1-18. The fiber can be used to form nonwoven articles having

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improved properties. See col. 44, lines 1-7. As suggested by the reference, it would have been obvious to form a biodegradable fiber comprising polylactic acid and a copolymer of butyric and/or valeric acid and caprolactone or butyrolactone and use to prepare nonwoven articles having improved properties.

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February 20, 2003

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PATRICIA A SHORT PRIMARY EXAMINER

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